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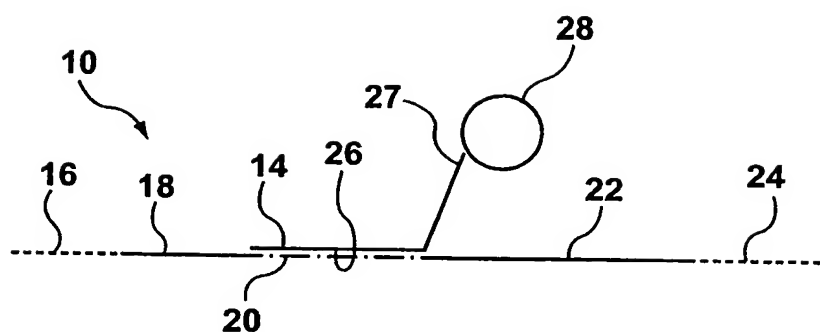


FIG. 1A

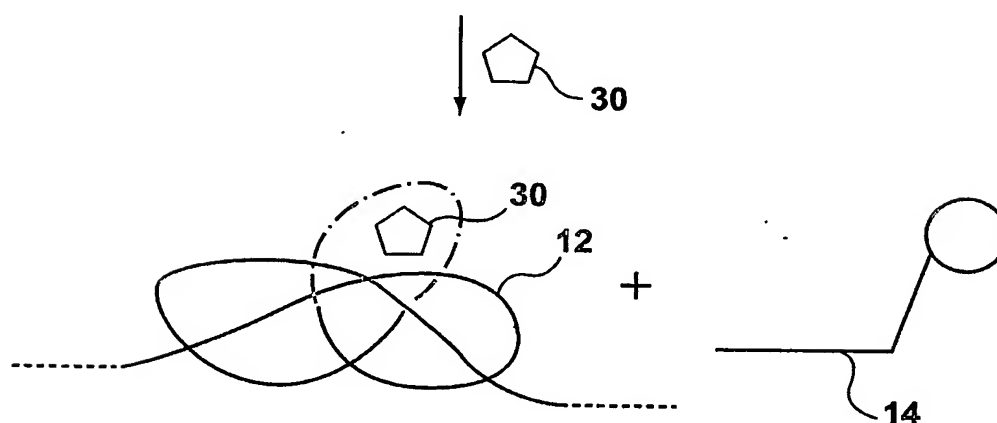
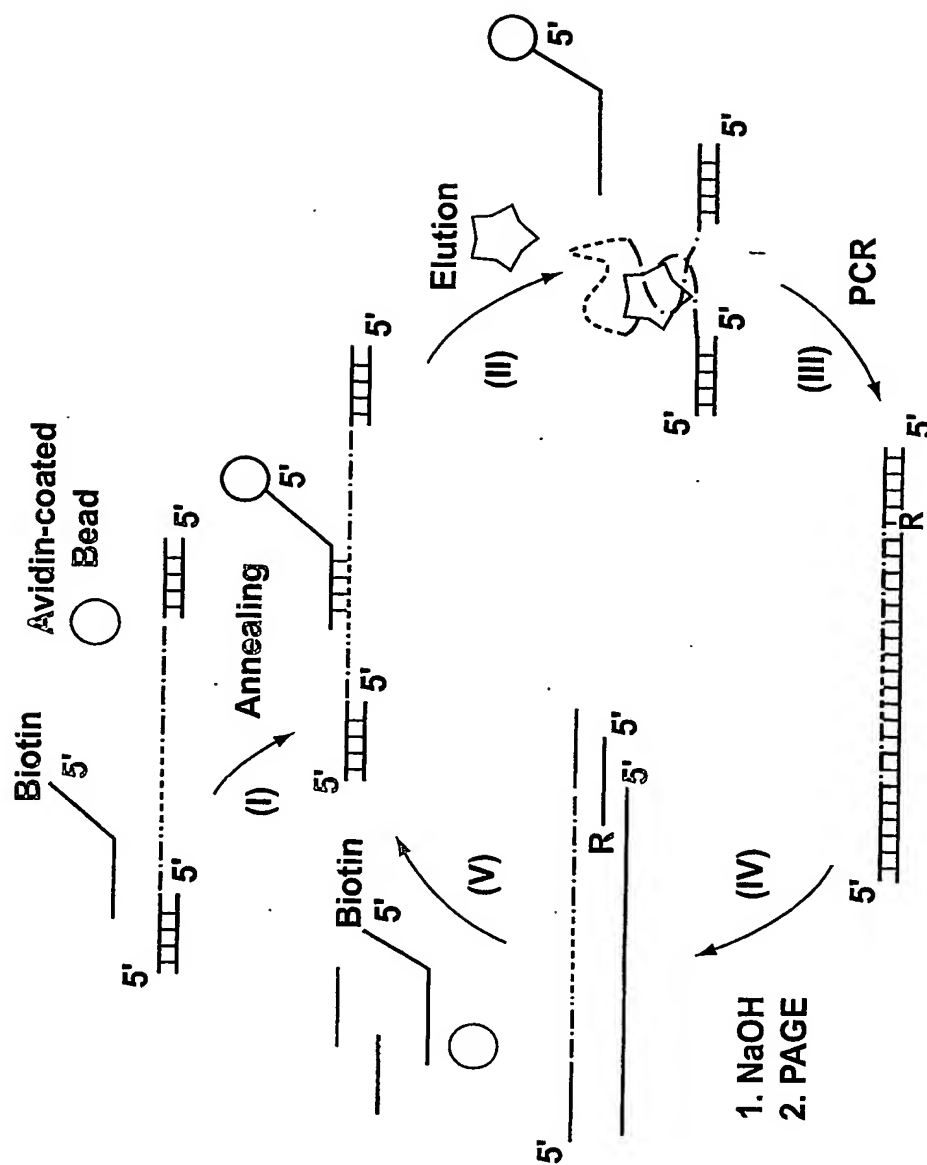


FIG. 1B



FIG. 1C

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**FIG. 2**

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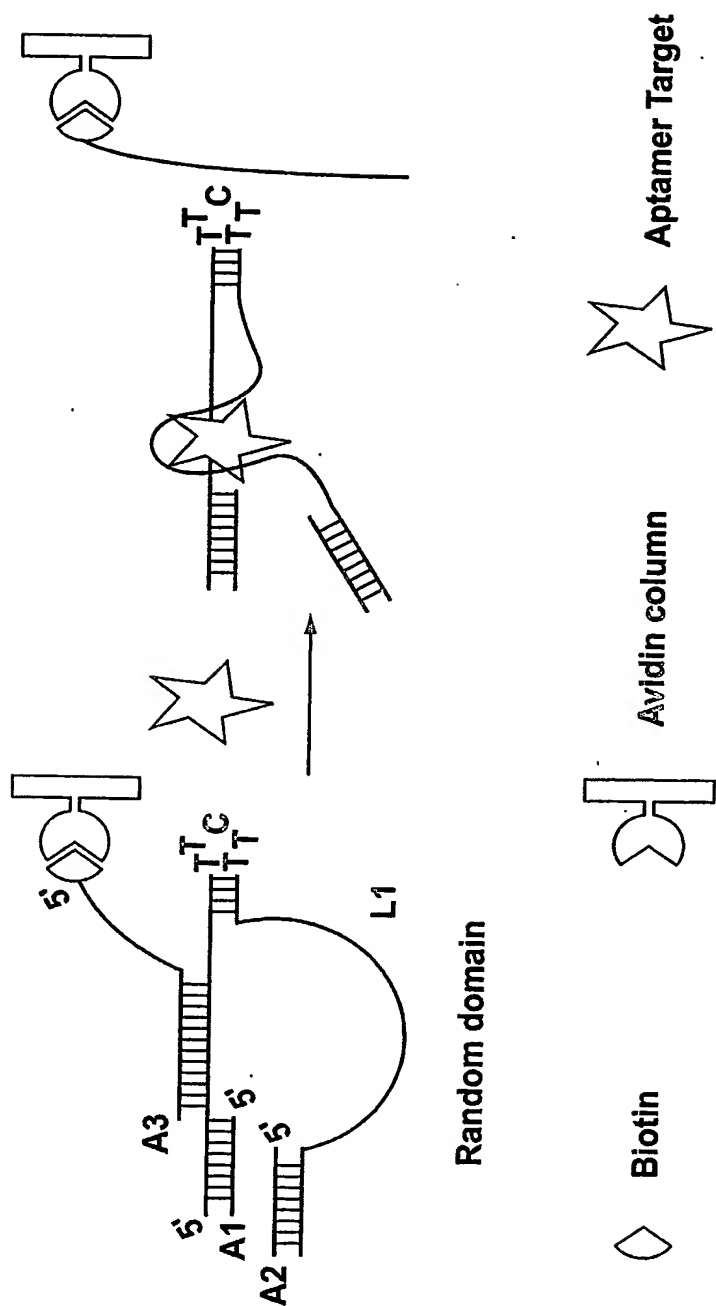
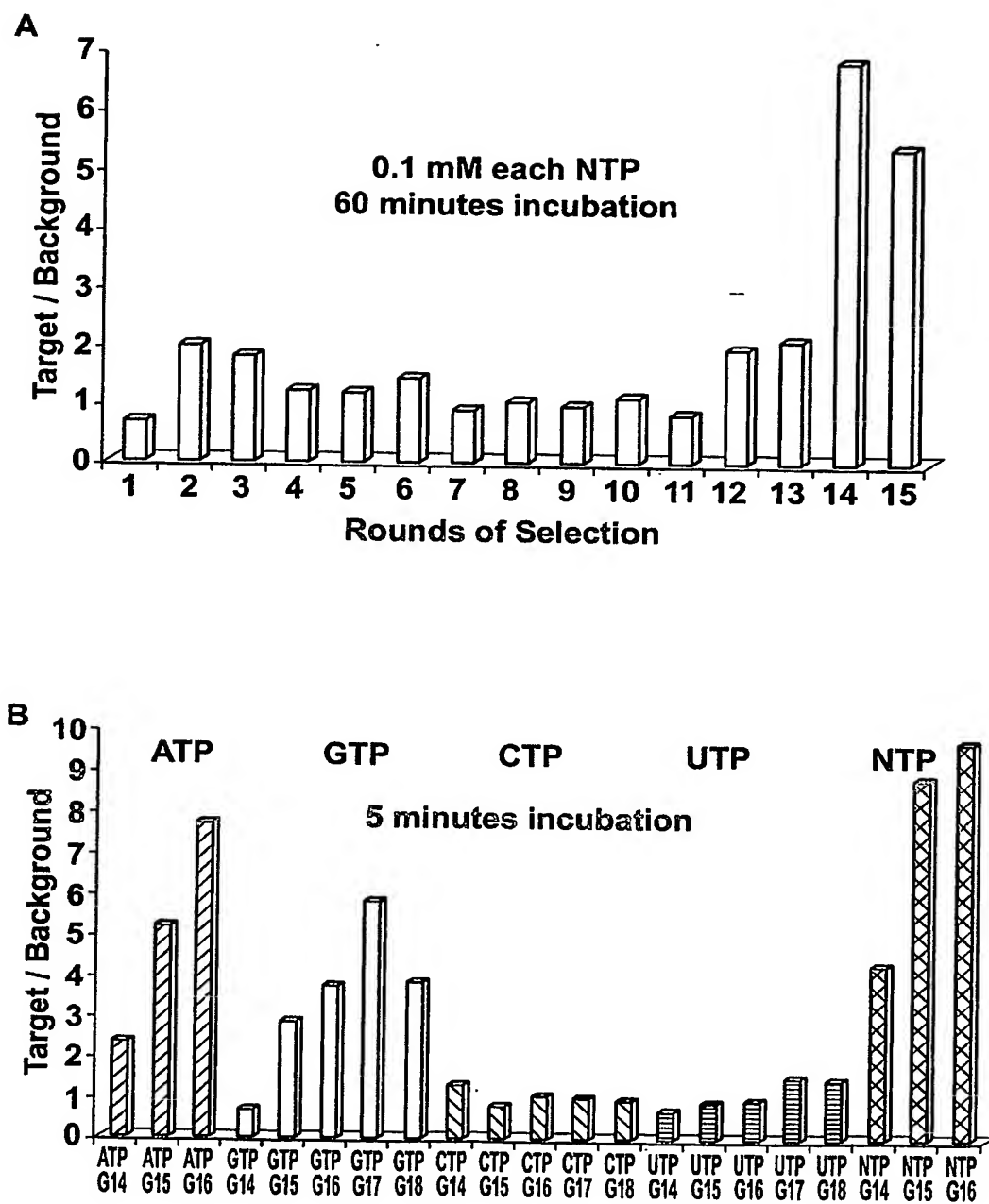


FIG. 3

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**FIG. 4**

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- A Library**
AAGCTTNNNNNNNNCTGCAGCGATTCTTGATCGNNNNNNNNNNNNNNNNNNNN
- B ATP Aptamer**
Class I
1ATP1 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGGACGGGGGAGAAAGGTTT
1ATP2 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGGACGGGGGAGAAAGGTGT
1ATP3 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGGATGGGGGAGAAAGGTTT
Class II
2ATP1 AAxCTTTGGAGGAGATCxGCAGCGATTCTTGATCGTCATCGGGGGAGAAAGTGATA
2ATP2 AAxCTTTGGAGGAGATCxGCAGTGATTCTTGATCGCCATCGGGGGAGAAAGTGACA
2ATP3 AAxCTTTGGAGGAGATCxGCAGCGATTCTTGATCGCTATCGGGGGAGAAAGTGATA
2ATP4 AAxCTTTGGAGGAGATCxGCAGTGATTCTTGATCGCCATCGGGGGAGAAAGTGACA
2ATP5 AAGCTTCGGAGGAGAACTGCAGTGATxCTTGATCGCATTTTCGGGGGAGAAATGCC
Class III
3ATP1 AAGCTxGGAGGAGGA^{ACTGCAGCGATTCTTGATCGGAAGGGTAACGGGGAGGGCT}
Previously Selected ATP Aptamer
GCTTGGAGGAGTATTGCGGGGAAAGC
- C GTP Aptamer**
Class I
1GTP1 AAGxxxGGGGTGGTTTCCGCAGTGATTCTTGATCGCGGAAGTTGGTGGGAGGGT
1GTP2 AAGxxxGGGGTGGTTTCCGCAGCGATTCTTGATCGCGGAAGTCGGTGGGAGGGT
1GTP3 AAGxxxGGGGTGGTTTCCGCAGCGATTCTTGATCGCGGAAGTTGGCGGGAGGGT
1GTP4 GAGxxxGGGGTGGTTTCCGCAGCGATTCTTGATCGCGGAAGTTGGTGGGAGGGT
1GTP5 AAGxxxGGGGTGGTTTCTGCAGTGATTCTTGATCGCGGAAGTTGGTGGGAGGGT

FIG. 5

Q
GACGTCGCTAAGAAC AAAAAAAAAAGCCCAT - Biotin

A CCTGCCACGCTCCGCAAGCTT N₁₀ CTGCAGCGATTCTTGATCG N₂₀ TAAGCTTGGCACCCCGCATCGT
GGACGGTGCAGGGCG **F** rATTGGAACCGTGGCGGTAGCA

B 1ATP1 CCTGCCACGCTCCGCAAGCTTCCGAGGAGTTCTGCAGCGATCTTGATCGGGGACGGGGAGAAAGTTTAAAGCTTGGCACCCCGCATCGT
2ATP1 CCTGCCACGCTCCGCAAGCTTGGAGGAGATCGCAGCGATTCTTGATCGTCATCGGGGAGAGTGATATAAGCTTGGCACCCCGCATCGT
2ATP5 CCTGCCACGCTCCGCAAGCTTCCGAGGAGAACTGCAGTGATCTTGATCGCATTTTCGGGGGAGAAATGCCTAAGCTTGGCACCCCGCATCGT
3ATP1 CCTGCCACGCTCCGCAAGCTGGAGGAGGAAC¹TCAGCGATTCTGATCGGAAGGTAACGGGGGAGGCTTAAGCTTGGCACCCCGCATCGT

1GTP1 CCTGCCACGCTCCGCAAGGGGGTGGTTCCGAGTGATCTTGATCGCGGAAGTTGGTGGGAGGGTTAAGCTTGGCACCCCGCATCGT
1GTP2 CCTGCCACGCTCCGCAAGGGGGTGGTTCCGAGCGGATCTTGATCGCGGAAGTCGGTGGGAGGGTTAAGCTTGGCACCCCGCATCGT
1GTP5 CCTGCCACGCTCCGCAAGGGGGTGGTTCTGCAGTGATCTTGATCGCGGAAGTTGGTGGGAGGGTTAAGCTTGGCACCCCGCATCGT

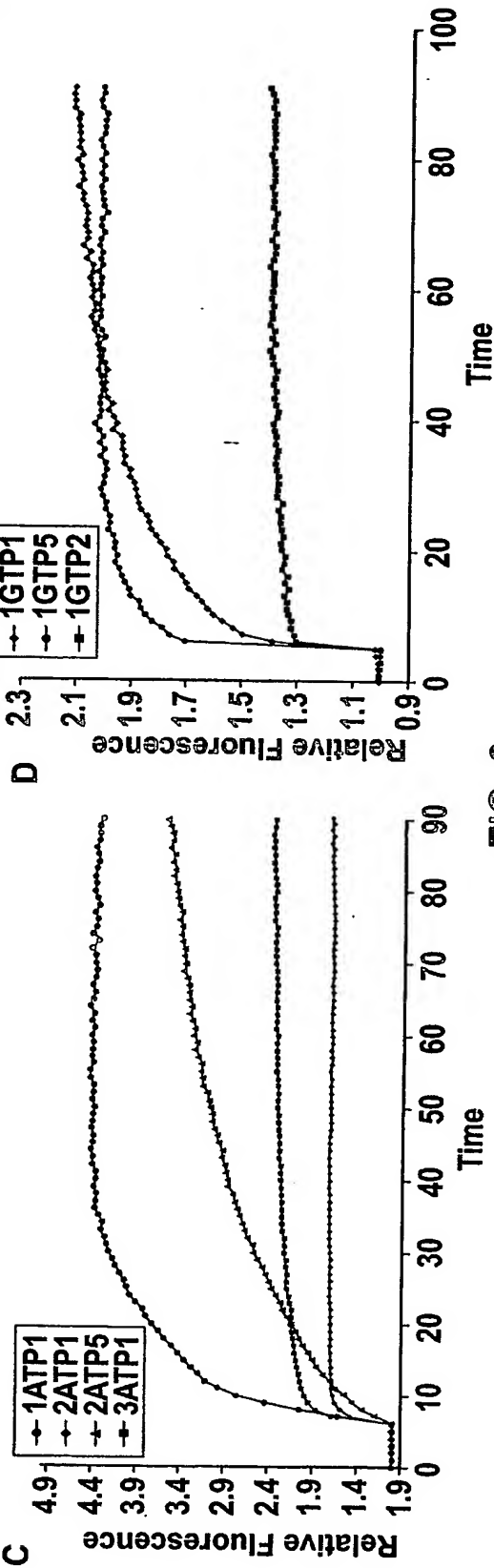
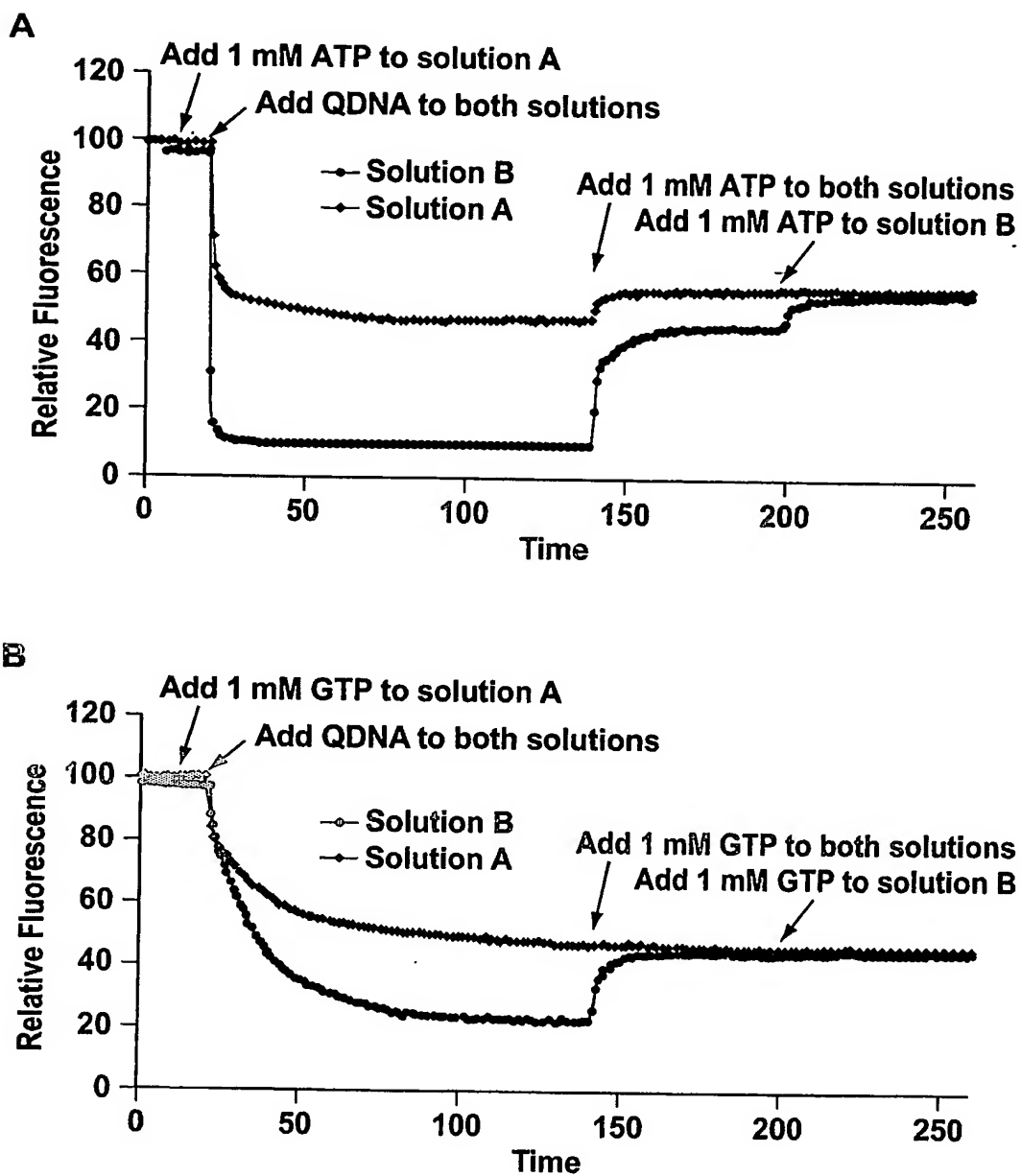
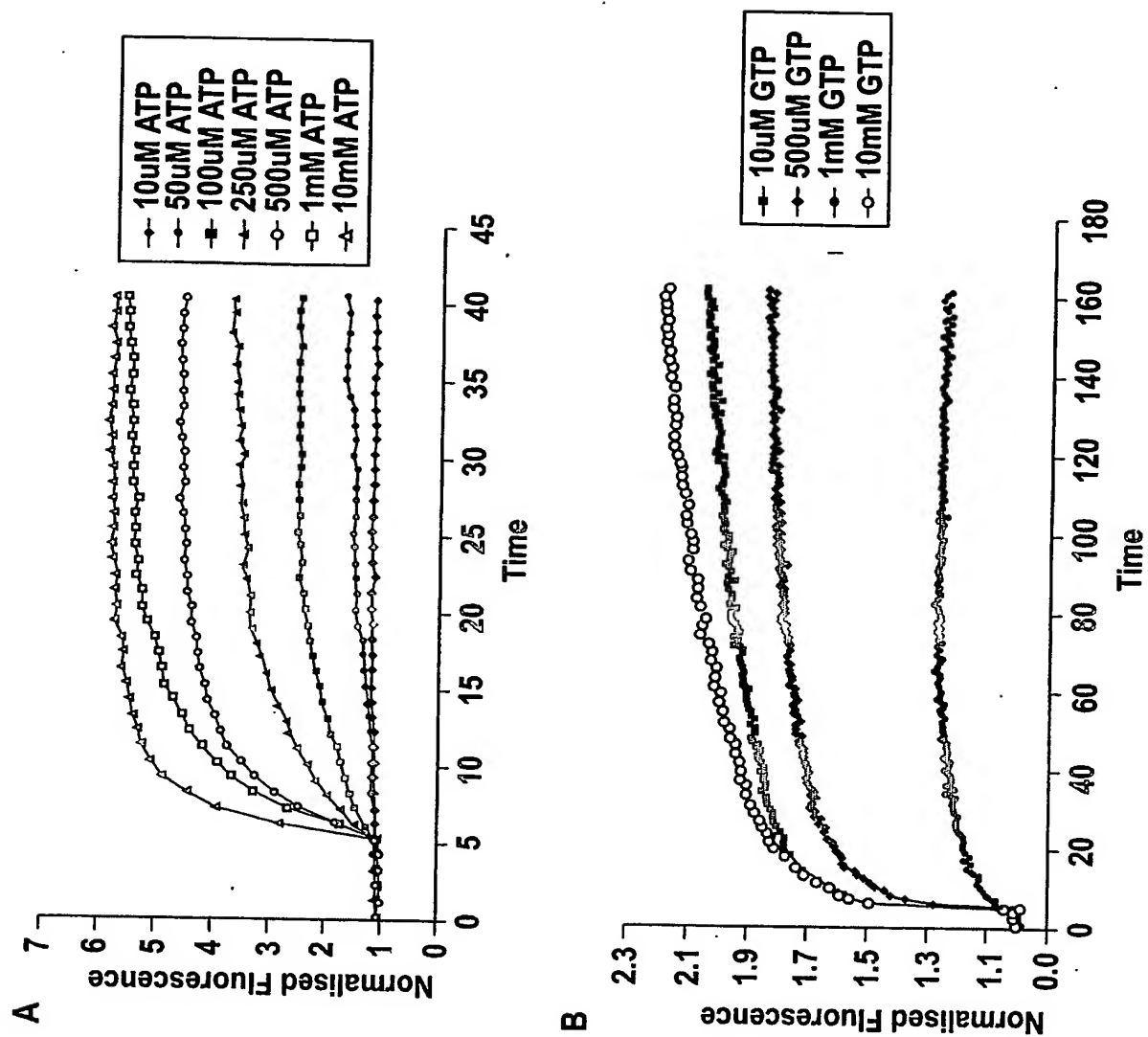


FIG. 6

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**FIG. 7**

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**FIG. 8**